-	4	((rhamnose and (cation near "3" exchange)) and weak) and finex	USPAT; US-PGPUB;	2003/03/25 12:03
			EPO; JPO; DERWENT; IBM TDB	
-	484	(weak weakly) adj cation	USPAT; US-PGPUB;	2003/03/25 12:04
			EPO; JPO; DERWENT;	
_	0	((weak weakly) adj cation) same rhamnose	IBM_TDB USPAT;	2003/03/25 12:04
		, , , , , , , , , , , , , , , , , , ,	US-PGPUB; EPO; JPO;	
		·	DERWENT; IBM_TDB	
-	10	((weak weakly) adj cation) and rhamnose	USPAT; US-PGPUB;	2003/03/25 12:08
			EPO; JPO; DERWENT;	
-	111	((weak weakly) adj cation) and sugar	IBM_TDB USPAT;	2003/03/25 15:49
			US-PGPUB; EPO; JPO; DERWENT;	
_	131	sequential same continuous same bed	IBM_TDB USPAT;	2003/03/25 15:49
			US-PGPUB; EPO; JPO;	
			DERWENT; IBM_TDB	
-	30	(sequential same continuous same bed) same moving	USPAT; US-PGPUB;	2003/03/25 15:49
			EPO; JPO; DERWENT; IBM TDB	
-	2	"20010009136"	USPAT; US-PGPUB;	2003/03/26 11:24
			EPO; JPO; DERWENT;	
-	2	"20010009236"	IBM_TDB USPAT;	2003/03/26 11:25
			US-PGPUB; EPO; JPO; DERWENT;	
_	0	"20010009236" and (weak weakly)	IBM_TDB USPAT;	2003/03/26 11:24
			US-PGPUB; EPO; JPO;	
			DERWENT; IBM_TDB	
-	1	"20010009236" and (xylose rhamnose)	USPAT; US-PGPUB;	2003/03/26 11:26
			EPO; JPO; DERWENT; IBM TDB	
-	1	"20030006191"	USPAT; US-PGPUB;	2003/03/26 11:27
			EPO; JPO; DERWENT;	
-	1	"20030006191" and (xylose rhamnose weak	IBM_TDB USPAT;	2003/03/26 12:50
		weakly)\	US-PGPUB; EPO; JPO; DERWENT;	
_	1553	(monosaccharide saccharide) same	IBM_TDB USPAT;	2003/03/26 12:51
		chromatograph\$	US-PGPUB; EPO; JPO;	==
			DERWENT; IBM TDB	

L Number	Uite	Search Text	DB	Time stamp
1	842	127/46.2.ccls. 127/46.3.ccls. 127/46.1.ccls.	USPAT;	2003/03/28 12:37
-			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	1
			IBM_TDB	
2	14	(127/46.2.ccls. 127/46.3.ccls.	USPAT;	2003/03/28 12:37
		127/46.1.ccls.) and rhamnose	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	ł I
3	3	((127/46.2.ccls. 127/46.3.ccls.	USPAT;	2003/03/28 12:39
ا ا		127/46.1.ccls.) and rhamnose) and (weak	US-PGPUB;	
		weakly)	EPO; JPO;	
		•	DERWENT;	
			IBM_TDB	
4	1043151	536/("124" "127" "128" 1.1)	USPAT;	2003/03/28 12:40
			US-PGPUB;	
:			EPO; JPO;	1
			DERWENT;	
e	2	 536/("124" "127" "128" 1.1).ccls.	<pre>IBM_TDB USPAT;</pre>	2003/03/28 12:40
5		330/ (124° °12/° °120	US-PGPUB;	2003/03/20 12.40
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
6	1886	536/124.ccls. 536/127.ccls. 536/128.ccls.	USPAT;	2003/03/28 12:41
		536/1.1.ccls.	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
_		/506/404	IBM_TDB	2002/02/20 12 41
7	117	1 ' '	USPAT;	2003/03/28 12:41
		536/1.1.ccls.) and rhamnose	US-PGPUB; EPO; JPO;	
			DERWENT;	
			IBM TDB	
8	25	((536/124.ccls. 536/127.ccls. 536/128.ccls.	USPAT;	2003/03/28 12:44
		536/1.1.ccls.) and rhamnose) and (weak	US-PGPUB;	
		weakly)	EPO; JPO;	
			DERWENT;	
			IBM_TDB	2000/00/00 10 11
9.	1221	210/663.ccls. 210/660.ccls. 210/661.ccls.	USPAT;	2003/03/28 12:44
			US-PGPUB; EPO; JPO;	
			DERWENT;	
			IBM_TDB	
10	3	(210/663.ccls. 210/660.ccls. 210/661.ccls.)	USPAT;	2003/03/28 12:45
		and rhamnose	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
	_	5000627	IBM_TDB	2002/02/26 11 02
-	2	5998637.pn.	USPAT;	2003/03/26 11:23
			US-PGPUB; EPO; JPO;	
			DERWENT;	
			IBM_TDB	
_	2	5998607.pn.	USPAT;	2003/03/24 14:25
	_		US-PGPUB;	
1	1		EPO; JPO;	
			DERWENT;	1
	:		IBM_TDB	0000/00/00 10
-	1404	rhamnose and (cation near "3" exchange)	USPAT;	2003/03/25 11:54
1			US-PGPUB;	
			EPO; JPO; DERWENT;	
			IBM TDB	
_	400	(rhamnose and (cation near "3" exchange))	USPAT;	2003/03/25 11:54
		and weak	US-PGPUB;	
1			EPO; JPO;	
			DERWENT;	
ı	1		IBM TDB	

Chromatograph\$) same (weak weakly)			· · · · · · · · · · · · · · · · · · ·		
17306 hplc same ph	_	20		USPAT;	2003/03/26 12:59
DERMENT; IBM TOB USPAT; US-PGPUB; EPO; JPO; DERMENT; IBM T			chromatograph\$) same (weak weakly)	US-PGPUB;	
17306 hplc same ph		1		EPO; JPO;	
17306 hplc same ph					
US-PGUB FEO, JPO, DERMENT; IBM TDB USPAT; US-PGUB FEO, JPO, JPO, DERMENT; IBM TDB USPAT; US-PGUB FEO, JPO, JPO, DERMENT; IBM TDB USPAT; US-PGUB FEO, JPO, JPO, DERMENT; IBM TDB USPAT; US-PG					
Property	-	17306	hplc same ph	•	2003/03/26 12:59
DERMENT; IBM TDB USPAT; US-POPUB; EPO, JPO, DERMENT; IBM TDB U				US-PGPUB;	
17306 hplc same ph 18M TDB USPAT; US-PGPUB; EPO; LPO; DERWENT; IBM TDB USPAT; US-PGPUB; EPO; LPO; LPO; DERWENT; IBM TDB USPAT; US-PGPUB; EPO; LPO; DERWENT; IBM TDB USPAT; US-PGPUB; EPO; LPO; LPO; LPO; LPO; LPO; LPO; LPO; L				EPO; JPO;	
- 17306 hplc same ph		i e		DERWENT;	
Sepand				IBM_TDB	
Second Company Seco	-	17306	hplc same ph	USPAT;	2003/03/26 13:00
Chplc same ph same weak DERWINT; IBM TDB USPAT; US-POPUB; EPO; JPO; DERWENT; IBM TDB USPAT; US-POPUB; EP				US-PGPUB;	
TIM TDB				EPO; JPO;	
- 81 (hplc same ph) same weak				DERWENT;	
Us-PGPUB; EFO; JPO; DERMENT; IRM TDB uspan; Us-PGPUB; EFO; JPO; DERMENT; IRM TDB uspan; Us-PGPUB; PPO; JPO; DERMENT; IRM TDB uspan; Uspa				IBM_TDB	
Pep. JPo; DERWENT; IBM TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; US-PGP	-	81	(hplc same ph) same weak	USPAT;	2003/03/26 13:01
DERMENT; IDM TIDB USPAT;				US-PGPUB;	
18M TDB				EPO; JPO;	
- 9 ((hplc same ph) same weak) and (weak adj acid) - 0 hplc same (rhamanose and xylose and arabinose) - 0 (hplc same (rhamanose xylose arabinose)) - 151 hplc same (rhamanose xylose arabinose)) - 151 hplc same (rhamanose xylose arabinose) - 152 hplc same (rhamanose xylose arabinose) - 153 hplc same (rhamanose xylose arabinose)) - 154 (hplc same (rhamanose xylose arabinose)) - 155 (hplc same (rhamanose xylose arabinose)) - 156 (weak near 6045593.PN. acid) and hplc and rhamnose - 1065 (weak near 6045593.PN. acid) and hplc and rhamnose - 1065 (weak near 6045593.PN. acid) and hplc and rhamnose - 1065 (weak near 6045593.PN. acid) and hplc and rhamnose - 1065 (weak near 6045593.PN. acid) and hplc and rhamnose - 1065 (weak near 6045593.PN. acid) and hplc and rhamnose				DERWENT;	
- 9 ((hplc same ph) same weak) and (weak adj acid) - 0 hplc same (rhamanose and xylose and arabinose) - 0 (hplc same (rhamanose xylose arabinose)) - 151 hplc same (rhamanose xylose arabinose)) - 151 hplc same (rhamanose xylose arabinose) - 152 hplc same (rhamanose xylose arabinose) - 153 hplc same (rhamanose xylose arabinose)) - 154 (hplc same (rhamanose xylose arabinose)) - 155 (hplc same (rhamanose xylose arabinose)) - 156 (weak near 6045593.PN. acid) and hplc and rhamnose - 1065 (weak near 6045593.PN. acid) and hplc and rhamnose - 1065 (weak near 6045593.PN. acid) and hplc and rhamnose - 1065 (weak near 6045593.PN. acid) and hplc and rhamnose - 1065 (weak near 6045593.PN. acid) and hplc and rhamnose - 1065 (weak near 6045593.PN. acid) and hplc and rhamnose				IBM TDB	
acid) US-PGPUB; EPO; JPO; DERWENT; IBM TDB USPAT; US-PGPUB; EPO; JPO; JPO; JPO; JPO; JPO; JPO; JPO; J	-	9	((hplc same ph) same weak) and (weak adj		2003/03/26 14:47
- 0 hplc same (rhamanose and xylose and arabinose) - 0 (hplc same (rhamanose xylose arabinose)) - 151 hplc same (rhamanose xylose arabinose) - 151 hplc same (rhamanose xylose arabinose) - 2003/03/26 1 - 151 hplc same (rhamanose xylose arabinose) - 155 (hplc same (rhamanose xylose arabinose)) - 165 (hplc same (rhamanose xylose arabinose)) - 175 (hplc same (rhamanose xylose arabinose)) - 185 (hplc same (rhamanose xylose arabinose)) - 195 (hplc same (rhamanose xylose arabinose)) - 196 (hplc same (rhamanose xylose arabinose)) - 197 (hplc same (rhamanose xylose arabinose)) - 198 (hplc same (rhamanose xylose arabinose)) - 197 (hplc same (rhamanose xylose arabinose)) - 198 (hplc same (rhamanose xylose arabinose)) - 196 (hplc same (rhamanose xylose arabinose)) - 197 (hplc same (rhamanose xylose arabinose)) - 198 (hplc same (rhamanose xylose arabinose))					
DERMENT; IBM TDB USPAT; US-PGPUB; EPO; JPO; DERMENT; IBM TDB					
TBM TDB USPAT; 2003/03/26 1					
- 0 hplc same (rhamanose and xylose and arabinose) USPAT; US-PGPUB; EPC, JPC, DERWENT; IBM TDB USPAT; US-PGPUB; EPC, JPC, JPC, JPC, DERWENT; IBM TDB USPAT; US-PGPUB; EPC, JPC, DERWENT; IBM T				1	
arabinose us-pgpuB; EPO; JPO; DERWENT; IBM_TDB uspAT; us-pgpuB; EPO; JPO; uspAT; us-pgpuB; uspAT; us-pgp	_	l 0	holc same (rhamanose and xylose and		2003/03/26 14:48
Comparison of the comparison					
DERMENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERMENT; IBM_TDB U					
TBM_TDB					
Company Comp					
Same weak	-	0	(hplc same (rhamanose xylose arabinose))		2003/03/26 14:48
Comparison of the comparison				1	2003, 03, 20 11:10
O			baile wear		
Complete the property of the					
Comparison of the property o		1			}
Same weakly	<u>-</u>	0	(hplc same (rhamanose xylose arabinose))		2003/03/26 14:48
Comparison of the property o					2003/03/20 11.40
DERWENT; IBM TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; US-PGPUB;			Same weakly		1
- 0 (hplc same (rhamanose xylose arabinose))				ł	
O (hplc same (rhamanose xylose arabinose))				1	
Same weak\$ US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; ISPO; DERW	_		(hold same (rhamanose vulose arabinose))		2003/03/26 14:48
EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; ISM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; ISM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; ISM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; ISM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; ISM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; ISM_TDB USPAT; US-PGPUB; EPO; JPO; JPO; DERWENT; ISM_TDB USPAT; US-PGPUB; EPO; JPO; JPO; JPO; DERWENT; ISM_TDB USPAT; US-PGPUB; EPO; JPO; JPO; DERWENT; ISM_TDB USPAT; US-PGPUB; EPO; JPO; JPO; DERWENT; ISM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; ISM_TDB USPAT; US-PG	_			1	2003/03/20 14.48
DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; US-PGPUB; EPO; US-PGPUB; EPO			Same weaks		
- 151 hplc same (rhamanose xylose arabinose) - 44 (hplc same (rhamanose xylose arabinose)) and (amberlite finex) - 29 (hplc same (rhamanose xylose arabinose)) and (amberlite finex) - 1065 (weak near 6045593.PN. acid) and hplc and rhamnose - 1065 (weak near 6045593.PN. acid) and hplc and rhamnose - 1065 (yeak near 6045593.PN. acid) and hplc and year (year year) - 1065 (yeak near 6045593.PN. acid) and hplc and year (year year) - 1065 (yeak near 6045593.PN. acid) and hplc and year (year year) - 1065 (yeak near 6045593.PN. acid) and hplc and year (year year) - 1065 (yeak near 6045593.PN. acid) and hplc and year (year year)				i .	
- 151 hplc same (rhamanose xylose arabinose) - 44 (hplc same (rhamanose xylose arabinose)) and (hplc same (rha				i '	,
US-PGPUB; EPO; JPO; DERWENT; IBM_TDB US-PGPUB; Weak\$ (hplc same (rhamanose xylose arabinose)) and weak\$ (hplc same (rhamanose xylose arabinose)) and (hplc same (rhamanose xylose arabinose)) and (amberlite finex) (maberlite finex) (weak near 6045593.PN. acid) and hplc and rhamnose US-PGPUB; EPO; JPO; DERWENT; IBM_TDB US-PGPUB; EPO; JPO;	_	151	hold dame (rhamanode vulode arabinode)		2003/03/26 14:50
- 44 (hplc same (rhamanose xylose arabinose)) and (seak) (hplc same (rhamanose xylose arabinose)) and (seak) (hplc same (rhamanose xylose arabinose)) and (seak) (amberlite finex) (seak near 6045593.PN. acid) and hplc and rhamnose (seak) (seak near 6045593.PN. acid) and hplc and rhamnose (seak) (seak near 6045593.PN. acid) and hplc and (seak) (_	151	Thire same (Inamanose Nytose atabinose)		2003/03/20 14:30
- 44 (hplc same (rhamanose xylose arabinose)) and (hplc same (rhamanose xylose arabinose)) and (uspat; us-pgpuB; EPO; JPO; DERWENT; IBM_TDB (same (rhamanose xylose arabinose)) and (amberlite finex) (uspat; us-pgpuB; EPO; JPO; DERWENT; IBM_TDB (uspat) (us	:				
- 44 (hplc same (rhamanose xylose arabinose)) and weak\$ - 29 (hplc same (rhamanose xylose arabinose)) and (amberlite finex) - 1065 (weak near 6045593.PN. acid) and hplc and rhamnose - 1065 (weak near 6045593.PN. acid) and hplc and rhamnose - 1065 (see arabinose)) and (see arabi					
- 44 (hplc same (rhamanose xylose arabinose)) and weak\$ USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;				1	
weak\$ US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; VS-PGPUB; EPO; JPO;	_	1 44	(hpla game (rhamanogo wylogo arabinogo)) and		2002/02/26 14:52
EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; Phamnose used of the property	_	44			2003/03/26 14:52
DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; IBM_TDB USPAT; US-PGPUB; EPO; JPO;		1	weans	1	
- 29 (hplc same (rhamanose xylose arabinose)) and (samberlite finex) (amberlite finex) (same (rhamanose xylose arabinose)) and (same (rhamanose xylose arabinose)) and (spAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; Phamnose (span) and hplc and USPAT; US-PGPUB; EPO; JPO;		[1	
- 29 (hplc same (rhamanose xylose arabinose)) and USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; rhamnose (weak near 6045593.PN. acid) and hplc and USPAT; US-PGPUB; EPO; JPO;		[
(amberlite finex) US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; rhamnose US-PGPUB; EPO; JPO; DERWENT; IBM_TDB USPAT; US-PGPUB; EPO; JPO;		1	(halla and (ahamana language)	_	1 2002 /02 /25 25 25
EPO; JPO; DERWENT; IBM_TDB (weak near 6045593.PN. acid) and hplc and USPAT; US-PGPUB; EPO; JPO;	=	29		1	2003/03/26 15:06
DERWENT; IBM_TDB (weak near 6045593.PN. acid) and hplc and USPAT; rhamnose US-PGPUB; EPO; JPO;			(amberlite finex)	· ·	
1065 (weak near 6045593.PN. acid) and hplc and USPAT;					
- 1065 (weak near 6045593.PN. acid) and hplc and USPAT; 2003/03/26 1 rhamnose US-PGPUB; EPO; JPO;					
rhamnose US-PGPUB; EPO; JPO;			() (0)		0000/05/05 = -
EPO; JPO;	-	1065			2003/03/26 15:11
		1	rnamnose		
, , , , , , , , , , , , , , , , , , ,					
				DERWENT;	
IBM_TDB					
l ! !	-	364			2003/03/26 15:07
rhamnose) and cation US-PGPUB;			rhamnose) and cation		
EPO; JPO;					
DERWENT;					
IBM TDB		1		IBM_TDB	1

	18	(((weak near 6045593.PN. acid) and hplc and	USPAT;	2003/03/26 15:08
-	10	rhamnose) and cation) and divinyl	US-PGPUB;	2003/03/26 15:08
		inaminose, and cacion, and divinyi	EPO; JPO;	
			DERWENT;	
			IBM TDB	
l _	28	(weak near3 acid) and hplc and rhamnose	USPAT;	2003/03/26 15:38
		(weak nears deray and inpre and rhaminose	US-PGPUB;	2003, 03, 20 13.30
			EPO; JPO;	
			DERWENT;	
			IBM TDB	
<u>-</u>	2	5466294.pn.	USPAT;	2003/03/26 15:50
			US-PGPUB;	,,
			EPO; JPO;	
			DERWENT;	
			IBM TDB	
-	807	chromatography and cation and rhamnose	USPAT;	2003/03/26 15:51
			US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	390	(chromatography and cation and rhamnose) and	USPAT;	2003/03/26 15:52
		weak\$	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
			IBM_TDB	
-	43	(chromatography and cation and rhamnose) and	USPAT;	2003/03/26 16:41
		(weak adj acid)	US-PGPUB;	
			EPO; JPO;	
			DERWENT;	
		h-1 /-h	IBM_TDB	2002/02/26 16 42
-	22	hplc same (rhamnose and xylose)	USPAT;	2003/03/26 16:43
			US-PGPUB;	
			EPO; JPO; DERWENT;	
			IBM TDB	1
_	10	(hplc same (rhamnose and xylose)) and weak\$	USPAT;	2003/03/26 16:43
		Impre same (Inaminose and Ayrose), and weaks	US-PGPUB;	2003/03/20 10:43
			EPO; JPO;	
			DERWENT;	1
			IBM TDB	



Printing date 09/10/2002

Reviewed on 09/10/2002

1 Identification of substance:

- Product details:
- Trade name: Aminex HPX-87P Column \
- Catalog or product number: 1250098
- Application of the substance / the preparation Laboratory chemicals
- Manufacturer/Supplier:

Bio-Rad Laboratories, Life Science Group 2000 Alfred Nobel Drive Hercules, California 94547 1(510)741-1000

- Information department: Technical services, customer support.
- Emergency information:

1(800)424-9300 Use only in the event of a CHEMICAL EMERGENCY involving a SPILL, LEAK, FIRE, EXPLOSION or ACCIDENT. 510-741-1000

2 Composition/Information on components:

Chemical characterization:

CAS No. Description:

69011-20-7 Polystyrene-divinylbenzene sulfonic acid resin

- Identification number(s):
- EU Number: 585-580-01-X
- Chemical characterization

Listing of dangerous and non-hazardous components:

69011-20-7 Polystyrene-divinylbenzene sulfonic acid resin 50-100 %

7732-18-5 water

35-50 %

EINECS: 231-791-2 RTECS: ZC 0110000

3 Hazards identification

· Information pertaining to particular dangers for man and

environment

· not applicable

NFPA ratings (scale 0-4)

Health = 0
Fire = 0
Reactivity = 0

4 First aid measures

After inhalation

Supply fresh air; consult doctor in case of complaints.

- After skin contact Generally the product does not irritate the skin.
- After eye contact

Rinse opened eye for several minutes under running water.

· After swallowing Induce vomiting and call for medical help.

5 Fire fighting measures

Suitable extinguishing agents

CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

• Protective equipment: No special measures required.

6 Accidental release measures

- Person-related safety precautions: Not required
- Measures for environmental protection: No special measures required.
- Measures for cleaning/collecting: Pick up mechanically.

7 Handling and storage

- Handling
- Information for safe handling:

No special measures required.

Prevent formation of dust.

No special precautions are necessary if used correctly.

- Information about protection against explosions and fires:
 No special measures required.
- Storage
- Requirements to be met by storerooms and receptacles:
 No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: None.
- Storage class
- · Class according to regulation on flammable liquids: Void



8 Exposure controls and personal protection

• Additional information about design of technical systems: No further data; see item 7.

Components with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with

critical values that have to be monitored at the workplace.

• Additional information:

The lists that were valid during the creation were used as basis.

- Personal protective equipment
- General protective and hygienic measures
 Wash hands before breaks and at the end of work.
- o Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

o Protection of hands:

Protective gloves. Synthetic gloves

- Material of gloves Synthetic gloves
- Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

• Eye protection: Not required.

9 Physical and chemical properties:

• General Information

Form: particulateColor: Light yellow

• Odor: Odorless

0	Value/Range Unit Method
 Change in condition Melting point/Melting range: Boiling point/Boiling range: 	undetermined undetermined
• Flash point:	Not applicable
• Flammability (solid, gaseous) Product is not flammable.
• Danger of explosion:	idizing substances

Explosive when mixed with oxidizing substances.

• Density: Not determined

Solubility in / Miscibility with



• Water: Insoluble

Solvent content:

• Organic solvents: 0.0 %

∘ Solids content: 100.0 %

10 Stability and reactivity

• Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

- Dangerous reactions Reacts with strong oxidizing agents
- Dangerous products of decomposition:
 No dangerous decomposition products known

11 Toxicological information

- Acute toxicity:
- Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: No irritant effect.
- · Sensitization: No sensitizing effects known.

12 Ecological information:

• General notes: Not known to be hazardous to water.

13 Disposal considerations

- Product:
- Recommendation

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

Hand over to hazardous waste disposers.

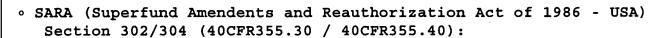
- Uncleaned packagings:
- Recommendation:

Disposal must be made according to official regulations.

14 Transport information

- Land transport ADR/RID (cross-border)
- ADR/RID class:
- o Maritime transport IMDG:
- Marine pollutant: No

15 Regulations



None of the ingredients is listed. Section 313 (40CFR372.65):

None of the ingredients is listed.

TSCA (Toxic Substances Control Act):

7732-18-5 water

• California Proposition 65:

Chemicals known to cause cancer:

The product does not contain listed components.

Chemicals known to cause reproductive toxicity:

The product does not contain listed components.

Cancerogenity categories
 EPA (Environmental Protection Agency)

None of the ingredients is listed.

IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

NTP (National Toxicology Program)

None of the ingredients is listed.

TLV (Threshold Limit Value established by ACGIH)

None of the ingredients is listed.

MAK (German Maximum Workplace Concentration)

None of the ingredients is listed.

NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

Markings according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials

- National regulations
- · Classification according to VbF: Void

16 Other information:

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing MSDS: Environmental Health and Safety.
- o Contact:

Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 741-1000

Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 724-7000